

direction of the UD carbon fibres (7) as contrast fibres.

10. (Amended) SMC according to Claim 1, characterised in that the SMC weight per unit area is less than 1000 gram/m².

A₂ 11. (Amended) SMC according to Claim 1, characterised in that the resin matrix (2) contains electrically conductive additives.

12. (Amended) Process for producing a fibre-reinforced SMC according to Claim 1, characterised

- in that SMC mats with a single layer of UD fibres (7) are produced and
- in that a plurality of SMC mats is arranged, prior to further processing to form the component (16), with multi-axial alignment of the UD fibres (7) by building up into a stack (19).

A₃ 14. (Amended) Process according to Claim 12, characterised in that at least four UD fibre layers (7) are arranged.

A₄ 16. (Amended) Process according to Claim 12, characterised in that at least six UD fibre layers (7) are arranged.

A₅ 18. (Amended) Process according to Claim 12, characterised in that eight UD fibre layers (7) are arranged.

A₆ 20. (Amended) Process according to Claim 12, characterised

- in that the SMC mats are cut into strips (12) and wound onto spools or reels (8),
- in that the strips (12) are cut to length and arranged in rectangular blank layers and
- in that the individual blank layers (11) are built up into a stack (19) on a rotary

table (14).

23. (Amended) Process according to Claim 1, characterised in that the strips (12) are wound onto spools with a core diameter of greater than 200 mm and an

A₇ outside diameter of greater than 500 mm.

24. (Amended) Process according to Claim 1, characterised in that the SMC is flowable and the blank size is always smaller than the laid out component surface.

25. (Amended) Component made of fibre-reinforced thermosets, characterised in that this component is produced from an SMC according to Claim 1.
